

10

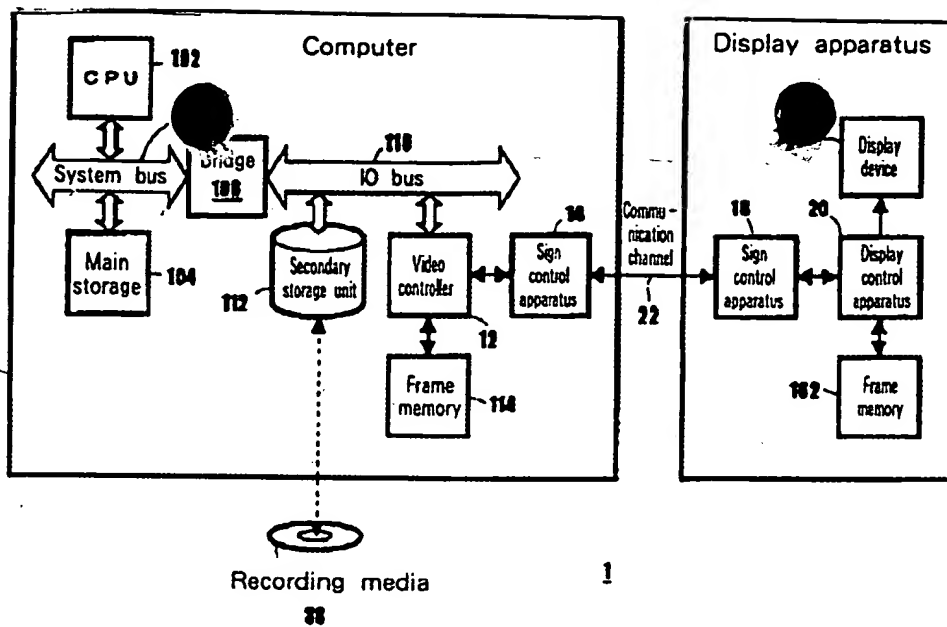


Fig. 1

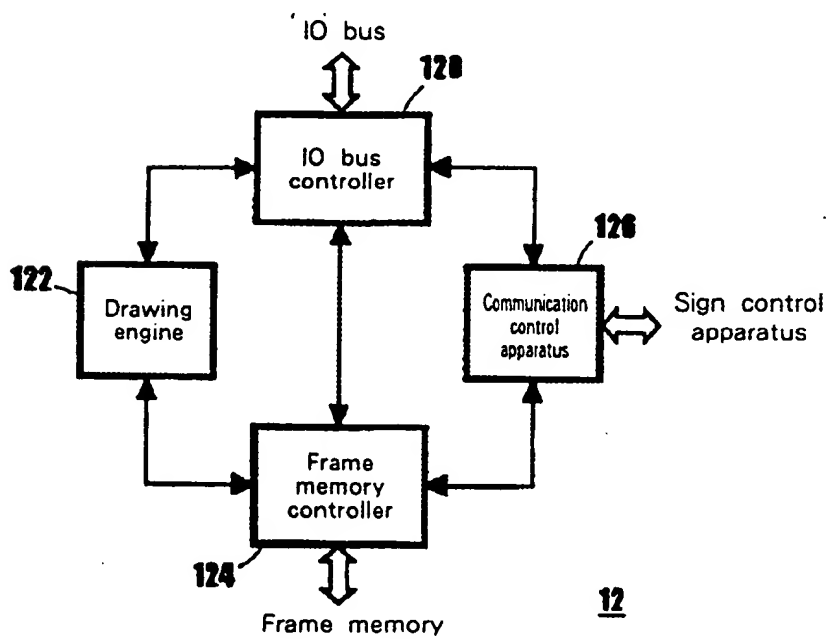


Fig. 2

000001 00000000

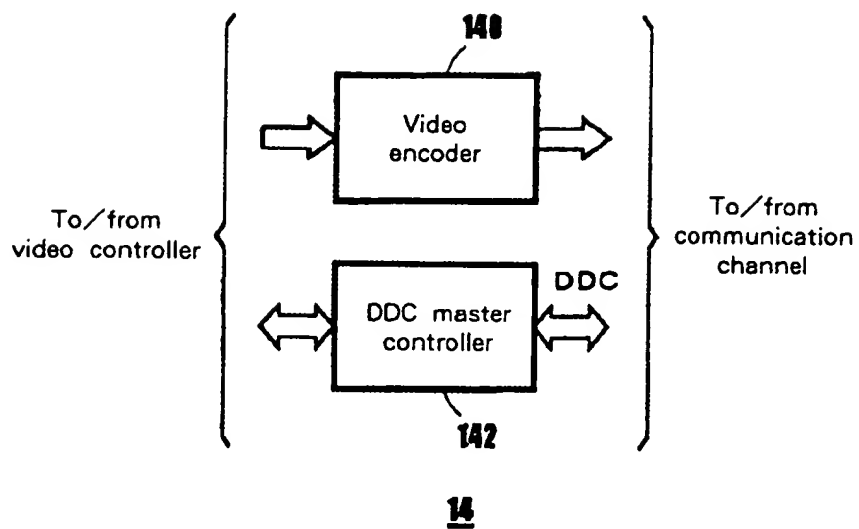
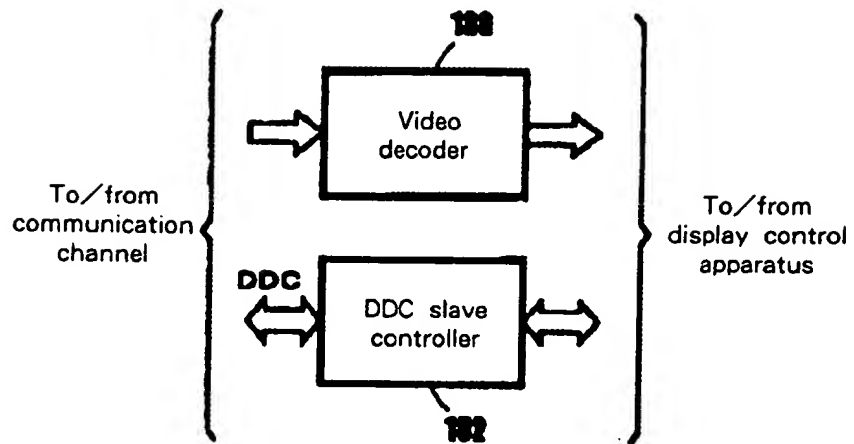


Fig. 3

000001-000000



11

Fig. 4

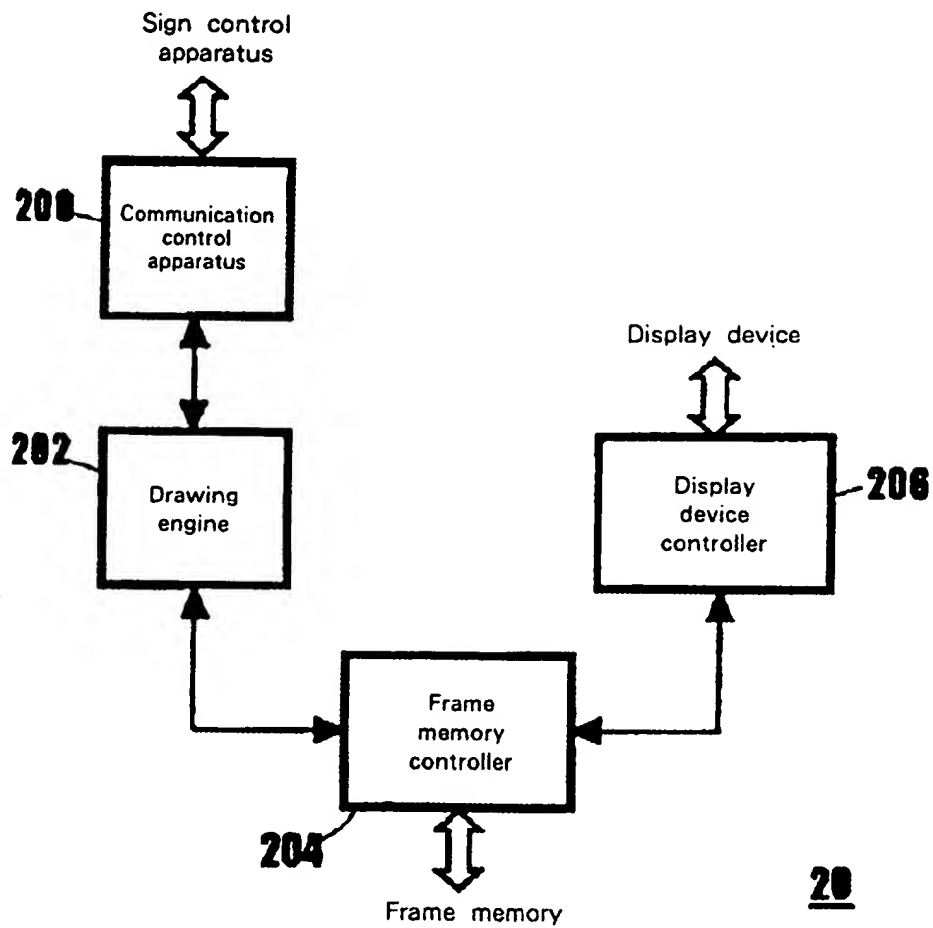


Fig. 5

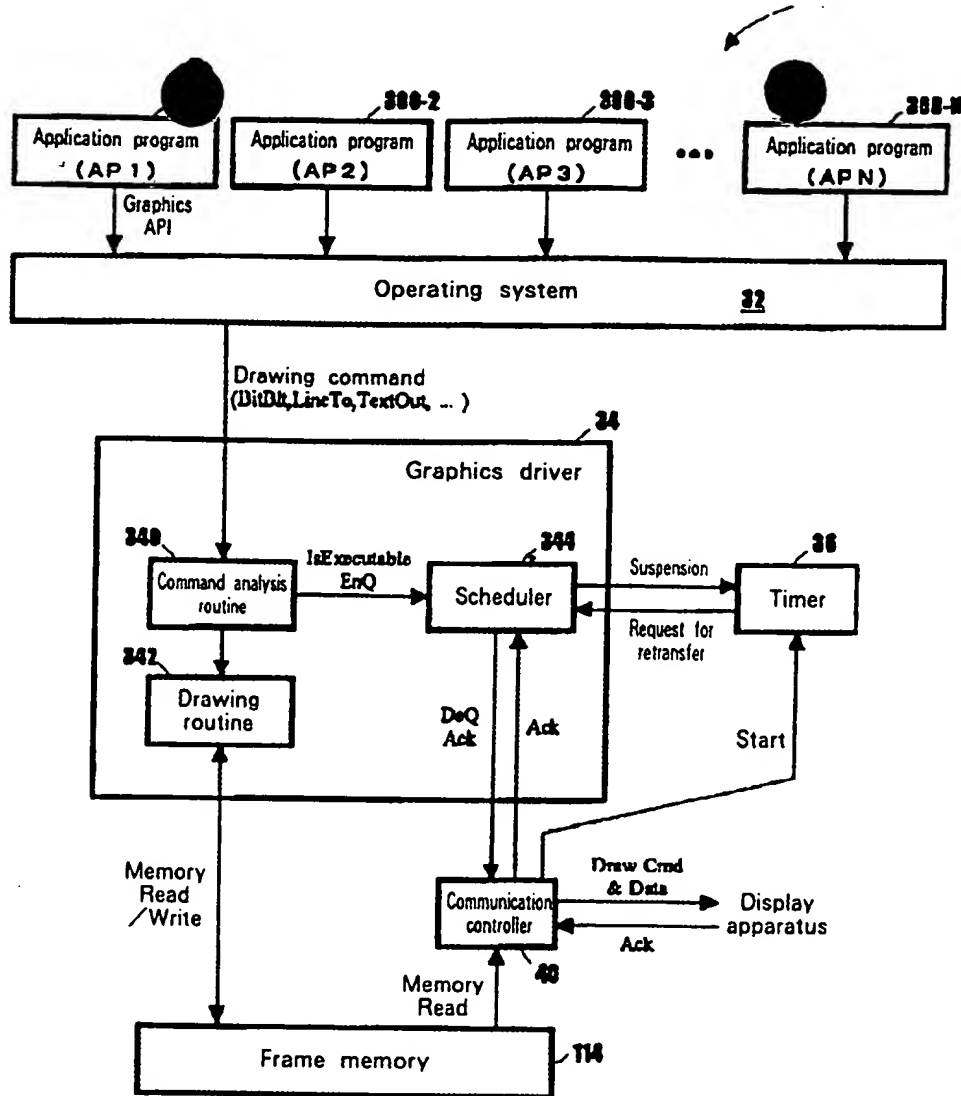


Fig. 6

Attributes of drawing area	Coordinates of drawing location	Size of drawing areas	Attributes of source areas	Coordinates of source areas	ROP
----------------------------	---------------------------------	-----------------------	----------------------------	-----------------------------	-----

Attributes of drawing areas	Attributes of source areas	Attributes of mask pattern	Clipping information	Color information	Coordinates and size of drawing location	Coordinates of mask pattern	Attributes of pattern	Coordinates of pattern
-----------------------------	----------------------------	----------------------------	----------------------	-------------------	--	-----------------------------	-----------------------	------------------------

Fig. 8

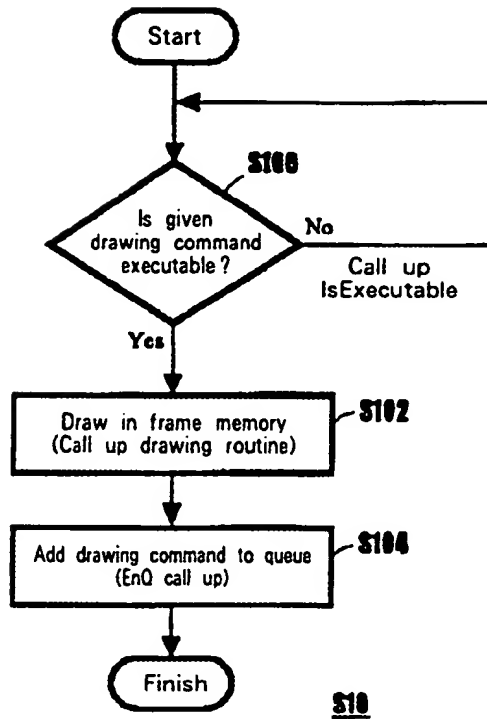


Fig. 9

Kind of command	Length of data	Data proper to command
-----------------	----------------	------------------------

Fig. 10

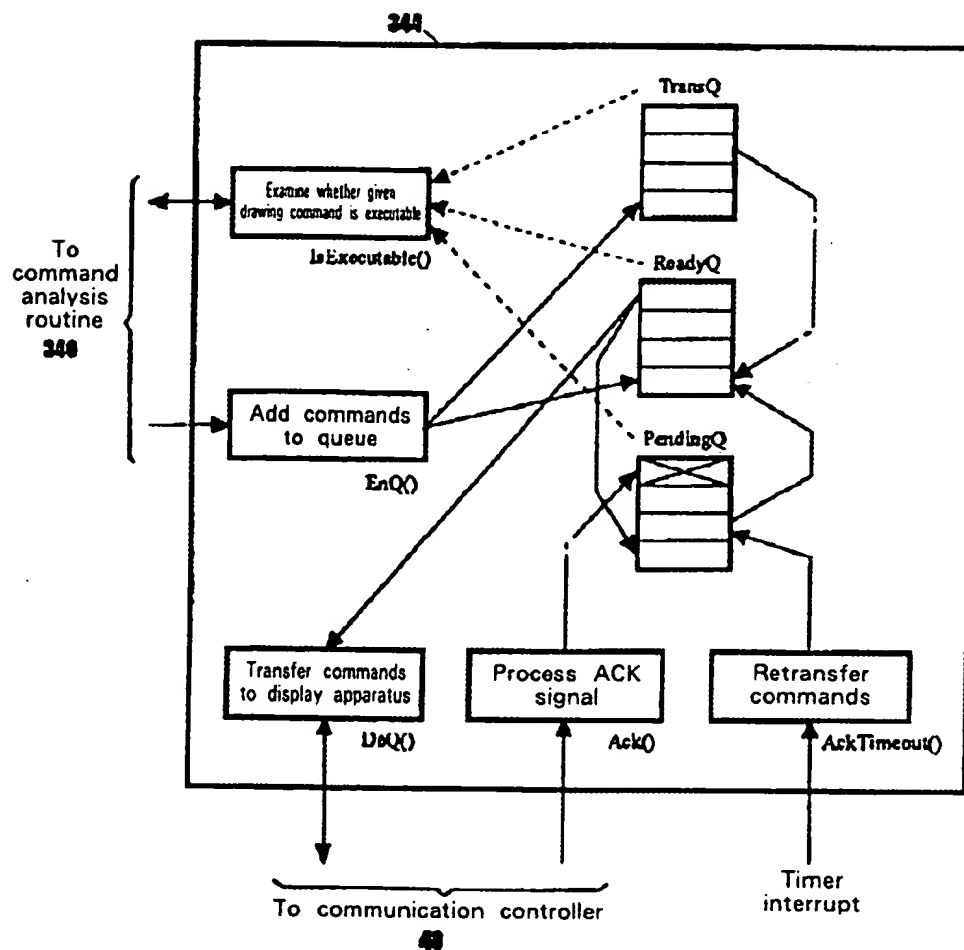
[illegible]

Fig. 11

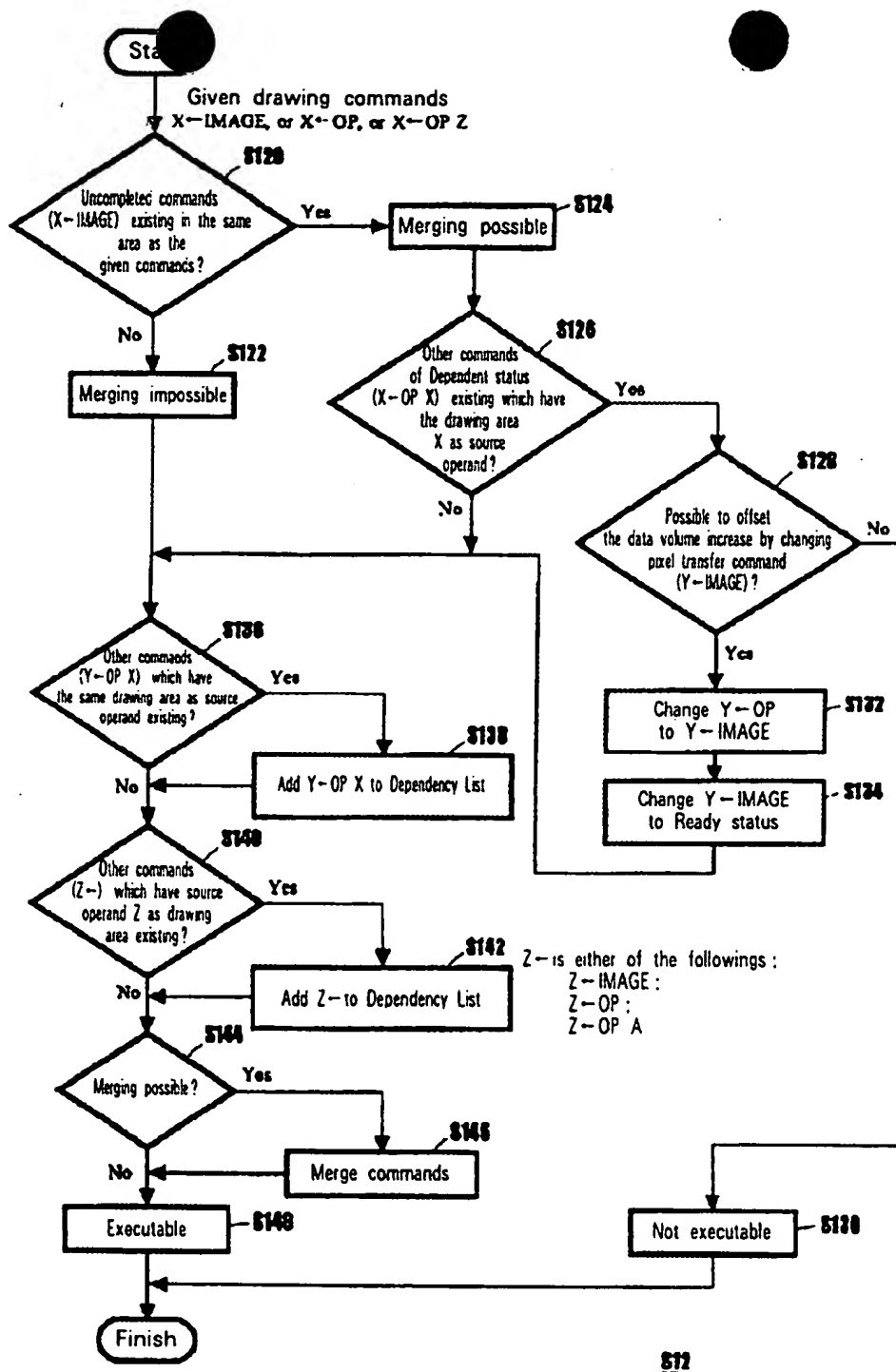


Fig. 12


```

graph TD
    Start([Start]) --> S160{Uncompleted drawing commands of interdependent relations existing?}
    S160 -- Yes --> S162[Add drawing command to Dependent Queue]
    S160 -- No --> S164[Assign the present group ID to drawing commands]
    S164 --> S166{Total group data volume larger than threshold N?}
    S166 -- Yes --> S168["Close the group  
• Set up EndOfGroup flag  
• Increment group ID value"]
    S166 -- No --> S170[Add drawing command to Ready Queue]
    S168 --> S170
    S162 --> Finish([Finish])
    S170 --> Finish

```

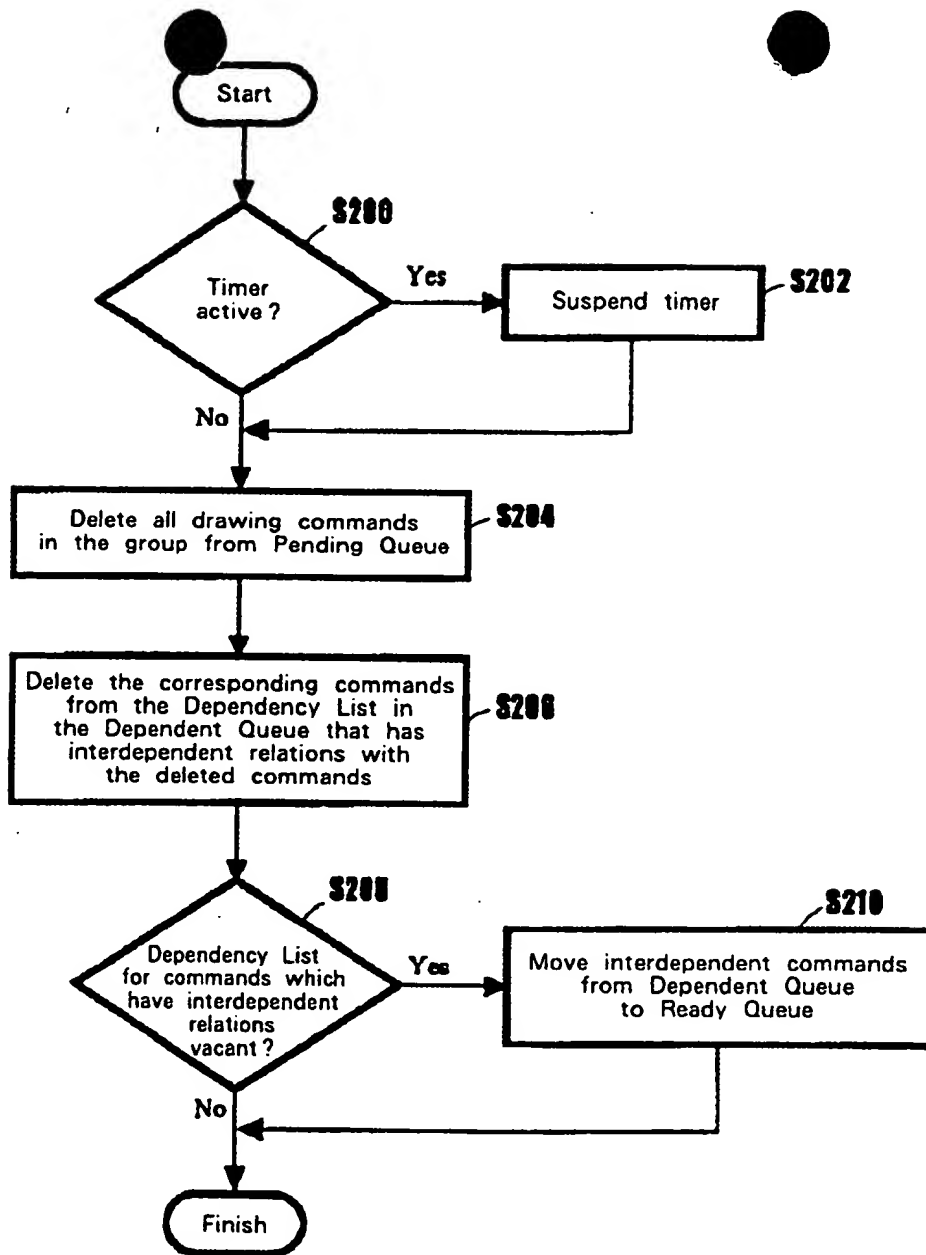
316

```
graph TD; Start([Start]) --> S180{Ready Queue vacant?}; S180 -- No --> S186[Close the group  
• Set up EndOfGroup flag  
• Increment group ID value]; S180 -- Yes --> S182[Pick up one drawing command from Ready Queue]; S182 --> S184{Ready Queue vacant?}; S184 -- Yes --> S186; S184 -- No --> S188[Add command to Pending Queue]; S186 --> S188; S188 --> Finish([Finish]);
```

The flowchart illustrates the logic for processing drawing commands. It begins with a 'Start' terminal, leading to a decision diamond S180: 'Ready Queue vacant?'. If the answer is 'No', the flow proceeds to step S186. If 'Yes', it proceeds to step S182: 'Pick up one drawing command from Ready Queue'. From S182, the flow enters another decision diamond S184: 'Ready Queue vacant?'. If 'Yes', it goes to S186. If 'No', it goes to step S188: 'Add command to Pending Queue'. Step S186, which contains the actions 'Close the group', 'Set up EndOfGroup flag', and 'Increment group ID value', also leads to S188. Finally, S188 leads to the 'Finish' terminal.

518

Fig. 14

[illegible]

\$20

Fig. 15

```
graph TD; Start([Start]) --> S220[Close the group for the commands left in Ready Queue  
- Set up EndOfGroup flag on the last command  
- Increment group ID value]; S220 --> S222[Newly assign group ID to all drawing commands in the error group, and move them from Pending Queue to Ready Queue]; S222 --> Finish([Finish]);
```

The flowchart illustrates the process for closing a group and moving commands from the Pending Queue to the Ready Queue. It begins with a 'Start' terminal, followed by a process block labeled **S220** which contains the steps: 'Close the group for the commands left in Ready Queue', 'Set up EndOfGroup flag on the last command', and 'Increment group ID value'. This is followed by another process block labeled **S222** which states: 'Newly assign group ID to all drawing commands in the error group, and move them from Pending Queue to Ready Queue'. The process concludes at a 'Finish' terminal. The label **S22** is positioned at the bottom right of the diagram.

Fig. 16

524

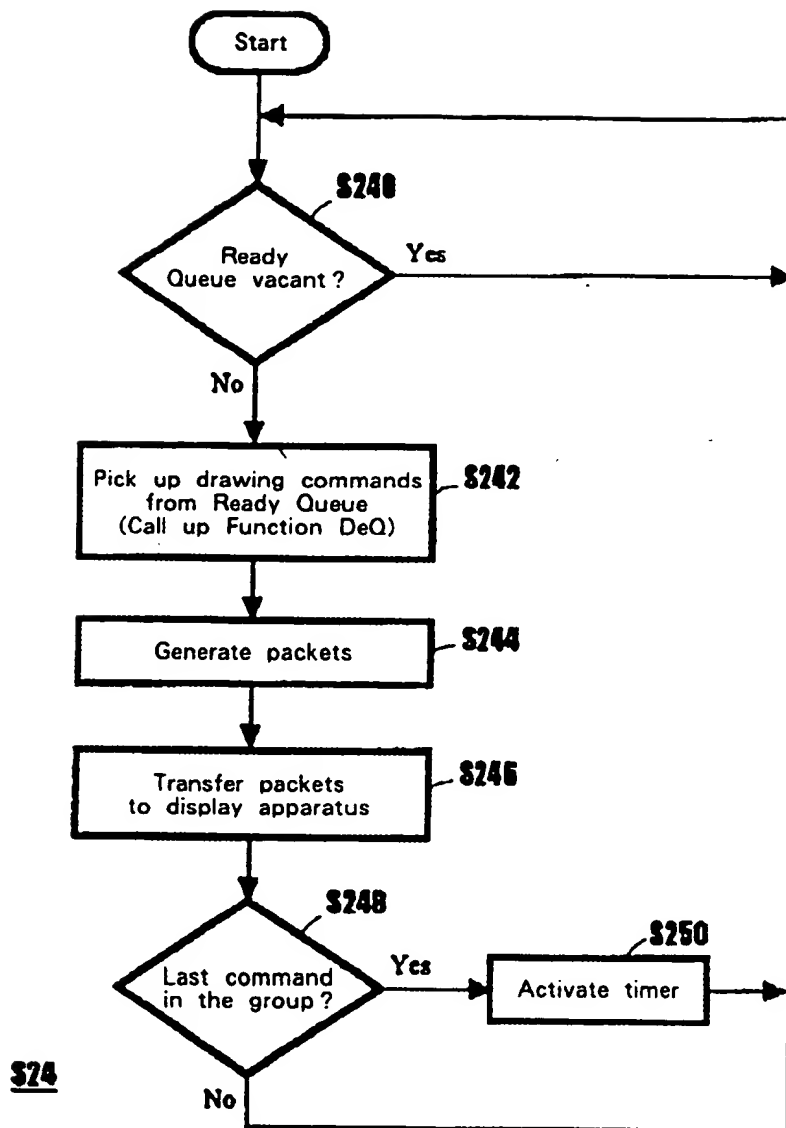


Fig. 17

```
graph TD
    30[30 Application program] -- Request 1 --> 33[33 Operating system]
    33 -- Response 10 --> 30
    33 -- Request 2 --> 340[340 Command analysis routine]
    340 -- Response 9 --> 33
    340 -- Request 3 --> 344[344 Scheduler]
    344 -- Response 4 --> 340
    340 -- Request 7 --> 344
    344 -- Response 8 --> 340
    340 -- Request 5 --> 342[342 Drawing routine]
    342 -- Response 6 --> 340
```

The diagram illustrates the interaction between five components: Application program (30), Operating system (33), Command analysis routine (340), Scheduler (344), and Drawing routine (342). The interactions are as follows:

- Application program (30)** sends **Request 1** to the **Operating system (33)** and receives **Response 10** back.
- Operating system (33)** sends **Request 2** to the **Command analysis routine (340)** and receives **Response 9** back.
- Command analysis routine (340)** sends **Request 3** to the **Scheduler (344)** and receives **Response 4** back.
- Command analysis routine (340)** sends **Request 7** to the **Scheduler (344)** and receives **Response 8** back.
- Command analysis routine (340)** sends **Request 5** to the **Drawing routine (342)** and receives **Response 6** back.

Fig. 18

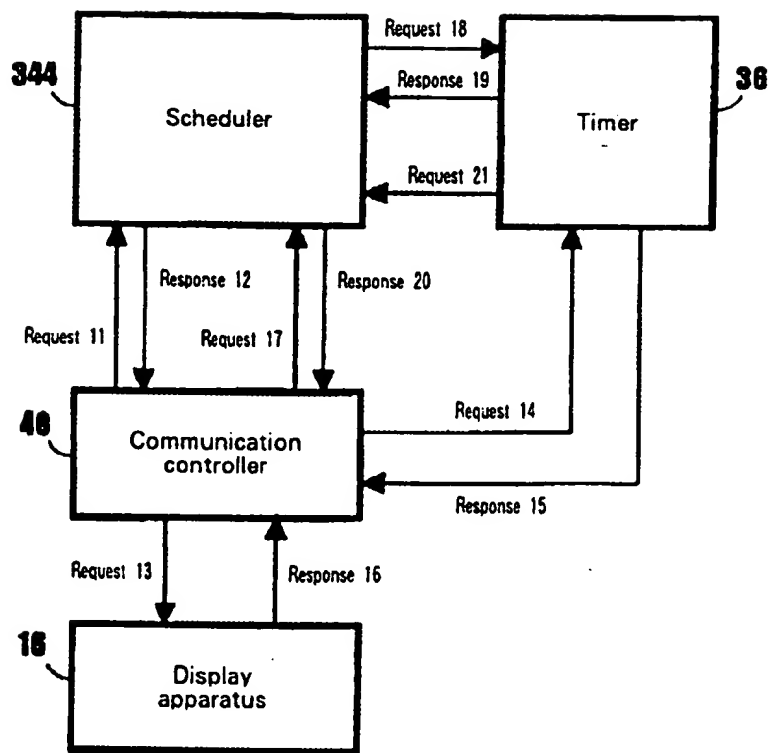


Fig. 19